

IN THE CLAIMS:

Claims 1-8 (Cancelled)

9. (New) A wireless base station that transmits a control signal to a non-specific mobile station by forming an omnidirectional antenna pattern and transmits a control signal to a specific mobile station by forming an array antenna pattern, the wireless base station comprising:

AI a judging unit operable to, when the control signal is to be transmitted to the specific mobile station, refer to a reception condition of and a time lapse from, an immediately preceding reception from a mobile station and judge if one or both of the reception condition and the time lapse satisfy a predetermined criterion; and

a controlling unit operable to, when the judging unit judges in the affirmative, stop the wireless base station from forming the array antenna pattern and force the wireless base station to transmit the control signal by forming an omnidirectional antenna pattern.

10. (New) The wireless base station of claim 9, wherein
the control signal transmitted to the specific mobile station includes a message representing a link channel establishing request, a link channel establishing re-request, a link channel allocation request, or a link channel allocation rejection.

11. (New) The wireless base station of claim 9, wherein
when the control signal is transmitted to the specific mobile station,

the judging unit judges that the reception condition of the immediately preceding reception from the mobile station satisfies the predetermined criterion, when a link channel establishing request is received in the immediately preceding reception and a difference that is between received reference signals has been stored and is equal to or larger than a threshold value, and

A | the judging unit judges that the time lapse from the immediately preceding reception from the mobile station satisfies the predetermined criterion, when a link channel establishing request is received in the immediately preceding reception, and a time lapse between the immediately preceding reception and the transmission of the control signal exceeds a predetermined length.

12. (New) The wireless base station of claim 9, wherein

when the judging unit judges in the negative, the controlling unit controls the wireless base station so that the transmission using the array antenna pattern is performed with a raised transmission power.

13. (New) The wireless base station of claim 9, wherein

when the controlling unit forces the wireless base station to transmit the control signal by forming the omnidirectional antenna pattern, in a case where a reception field strength of the mobile station is high, the controlling unit controls the wireless base station so that a transmission power is lowered temporarily.

14. (New) A controlling method to be used by a wireless base station that transmits a control signal to a non-specific mobile station by forming an omnidirectional antenna pattern and transmits a control signal to a specific mobile station by forming an array antenna pattern, the controlling method comprising:

A1 when the control signal is to be transmitted to the specific mobile station, referring to a reception condition of and a time lapse from, an immediately preceding reception from a mobile station and judging if one or both of the reception condition and the time lapse satisfy a predetermined criterion; and

when the judgment is in the affirmative, stopping the wireless base station from forming the array antenna pattern and forcing the wireless base station to transmit the control signal by forming an omnidirectional antenna pattern.
